Claim 3, line 4 of the claim: before "penetrate" insert -to-

Claim 10, line 4 of the claim: after "source" delete -of-

The claims with the corrections highlighted for the convenience of the Office are shown below.

1. A system for irradiating a product with a source of radiation comprising, in combination,

a) a source providing radiation to penetrate and irradiate the product; some of the radiation [**and**] exiting the product; and

b) a reflector of a high density, low Z material positioned to receive radiation exiting the product and to reflect back a [**some**] portion of the radiation exiting the product to re-irradiate said product.

3. A method of irradiating a selected product comprising, in combination,

a) directing radiation of sufficient energy to cause some of said radiation **to** penetrate and exit the product;

b) positioning a reflector of a selected high density, low Z material at least three quarters inch thick to receive radiation exiting the product and to reflect said radiation; and

c) directing the reflected radiation back to irradiate said product.

10. A system for irradiating with X-rays a product which product has top, bottom and sides surfaces comprising, in combination,

a) a source [**of**] for providing X-rays directed to irradiate the top surface of the product;

b) said source of X-rays providing X-rays suitable for penetrating at least 4 cms of water equivalent product;

c) a reflector of a high density, low Z material positioned to receive X-rays exiting the product and to reflect back a major portion of the X-rays exiting the product to re-irradiate said product;

d) said reflector being of boron carbide and being of a thickness of at least 10 cms in thickness,

e) said reflector being configured to reflect X-rays back to the sides of the product as well as to the bottom of the product; and

f) said reflector being positioned adjacent the bottom surface and side surfaces.